

Appl. No. 10/024,506
Amdt. dated August 2, 2004
Reply to Office Action of March 2, 2004

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of claims in the application.

1. (canceled)

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (currently amended) A device as claimed in claim [1] 20, wherein:

said auxiliary electrode has an abraded surface which is adapted to contact said patient's skin.

7. (canceled)

8. (currently amended) A device as claimed in claim [1] 20, further comprising:
a data storage, adapted to store information pertaining to said at least one analyte or
said patient.

9. (currently amended) A device as claimed in claim [1] 20, further comprising:
a communication device, adapted to communicate information between said device
and an external device.

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10. (currently amended) A device as claimed in claim [1] 20, wherein:
said device is adapted for wearing by said patient for a duration of time.

11. (canceled)

12. (canceled)

13. (canceled)

14. (canceled)

15. (canceled)

16. (currently amended) A device as claimed in claim [1] 20, wherein:
said analyte is electrochemically active.

17. (currently amended) A device as claimed in claim [1] 20, wherein:
said analyte is selected from nitric oxide, neurotransmitters, insulin, and oxygen.

18. (canceled)

19. (canceled)

20. (currently amended) A device [as claimed in claim 1,] for detecting at least one analyte in a patient, comprising:

a plurality of active electrodes, said active electrodes having a length such that said active electrodes are adapted to pass through the stratum corneum to a depth which is sufficient to access said analyte and less than a depth in the dermis at which nerve endings reside, to enable the electrochemical detection of said analyte; and

at least one auxiliary electrode configured to at least partially surround said active electrode, and adapted to contact the surface of patient's skin when the device is placed against said patient and operated to detect said at least one analyte; [further comprising:]

[a] wherein said plurality of active electrodes are adapted to be positioned for use in a sequential manner.

21. (original) A device as claimed in claim 20, wherein:
said plurality of active electrodes are contained after use.

22. (currently amended) A device as claimed in claim [1] 20, further comprising:
a delivery device integral therewith.

23. (original) A device as claimed in claim 22, wherein:
said device and said delivery device are adapted to communicate with each other to control administration of a substance that said delivery device delivers to said patient.

24. (canceled)

25. (canceled)

26. (canceled)

27. (canceled)

28. (canceled)

29. (canceled)

30. (currently amended) A device as claimed in claim [24] 41, wherein:

said auxiliary electrode has an abraded surface which is adapted to contact said patient's skin.

31. (canceled)

32. (currently amended) A device as claimed in claim [24] 41, further comprising:
a data storage, adapted to store information pertaining to said at least one analyte or said patient.

33. (currently amended) A device as claimed in claim [24] 41, further comprising:
a communication device, adapted to communicate information between said device and an external device.

34. (currently amended) A device as claimed in claim [24] 41, wherein:
said device is adapted for wearing by said patient for a duration of time.

35. (canceled)

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (currently amended) A device as claimed in claim [24] 41, wherein:
said substance is selected from glucose oxidases, glucose dehydrogenases, and electrochemically responsive receptors.

41. (currently amended) A device for detecting at least one analyte in a patient,
comprising:

a plurality of active electrodes having a length such that said active electrodes are
adapted to pass through the stratum corneum of said patient to a depth which is sufficient to
access said analyte and less than a depth in the dermis at which nerve endings reside; and

at least one substance adjacent to at least a portion of said active electrodes capable of
reacting with at least one analyte to produce at least one electrochemically active product; and

an auxiliary electrode configured to at least partially surround said active electrode,
and adapted to contact the surface of said patient's skin when the device is placed against said
patient and operated to detect said at least one analyte;

[as claimed in claim 24, further comprising:]

[a] wherein said plurality of active electrodes are adapted to be positioned for use in a
sequential manner.

42. (original) A device as claimed in claim 41, wherein:

said plurality of active electrodes are contained after use.

43. (currently amended) A device as claimed in claim [24] 41, further comprising:
a delivery device integral therewith.

44. (currently amended) A device as claimed in claim [22] 43, wherein:
said device and said delivery device are adapted to communicate with each other to
control administration of a substance that said delivery device delivers to said patient.

45. (canceled)

46. (canceled)

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47. (canceled)

48. (canceled)

49. (canceled)

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60. (canceled)

61. (canceled)

62. (canceled)

63. (canceled)

64. (canceled)

65. (canceled)

66. (previously presented) A device for detecting at least one analyte in a patient, comprising:

a plurality of active electrodes, adapted to be positioned for use in a sequential manner, each said active electrode having a length such that said active electrode is adapted to pass through the stratum corneum to a depth sufficient to access said analyte to enable the electrochemical detection of said analyte; and

at least one auxiliary electrode configured to at least partially surround said active electrode, and adapted to contact patient's skin when the device is placed against said patient.

67. (previously presented) A device as claimed in claim 66, wherein:

said plurality of active electrodes are contained after use.

68. (previously presented) A device for detecting at least one analyte in a patient, comprising:

a plurality of active electrodes adapted to be positioned for use in a sequential matter, each said active electrode having a length such that said active electrode is adapted to pass through the stratum corneum of said patient to a depth sufficient to access said analyte; and

at least one substance adjacent to at least a portion of said active electrode capable of reacting with at least one analyte to produce at least one electrochemically active product; and

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an auxiliary electrode configured to at least partially surround said active electrode, and adapted to contact said patient's skin when the device is placed against said patient.

69. (previously presented) A device as claimed in claim 68, wherein:
said plurality of active electrodes are contained after use.